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OM protein - protein search, using sw model

Run on: December 5, 2002, 13:18:38 ; Search time 38 Seconds
(without alignments)
1171.203 Million cell updates/sec

Title: US-09-765-034-2

Sequence: 1 MUGIMANNATCKIWLAEAA.....KSLTFSRWAHELLLSFREK 334

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing:	Minimum Match	0%
	Maximum Match	100%
	Listing first	45 summaries

A_GeneSeq_101002.*

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23: /SIDS2/gcgdata/geneSeq/genseq_emb1/AA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1737	99.4	334	21	AAV71308	Human orphan G protein-coupled receptor
2	1737	99.4	334	21	AAAB02842	Human G protein-coupled receptor
3	1737	99.4	334	23	ABB90381	Human polypeptide hormone
4	1737	99.4	379	23	AAAE15633	Human G-protein-coupled receptor
5	1725	98.7	334	18	AAAM19654	Human purinergic receptor
6	1721	98.5	334	18	AAAM22732	Human ATP receptor
7	1696	97.1	387	22	AAU31029	Human ATP receptor
8	1333	76.3	258	21	AAAB4576	Human secreted protein
9	1231.5	70.5	317	23	AAU74504	Amino acid sequence
10	499.5	28.6	373	23	AAU10984	Purinergic receptor

11	497.5	28.5	373	22	AAE04389	Human p2-purinergic
12	497.5	28.5	373	23	AAU10963	Purinergic receptor
13	490.5	28.1	373	23	AAU10985	Purinergic receptor
14	477	27.3	337	22	AAU04375	Human G-protein cc
15	477	27.3	337	22	AAOI5339	Human G-protein cc
16	477	27.3	337	23	ABE81902	Human G-protein cc
17	477	27.3	337	23	ABE83819	Human p2y1-like rec
18	477	27.3	337	23	AAE21803	Human AXOR89 (G-p
19	477	27.3	337	23	ABE79438	Human p2y1-1i. Ho
20	477	27.3	337	23	AAU17600	Human p2y1-like G
21	477	27.3	337	23	AAOI4037	Human purinergic-r
22	477	27.3	337	23	AAE16171	Human G-protein cc
23	475	27.2	374	22	AAU04350	Turkey p2y nucleot
24	470	26.9	337	22	AAU04584	Human G-protein cc
25	429.5	24.6	259	21	AAE85375	Gene 37 human secr
26	420.5	24.1	336	22	AAAG00971	Human ngPCR54 #2.
27	405	23.2	537	23	AAU74588	Human p2y purinoc
28	395.5	22.6	276	23	ABE83818	Human p2y1-like rec
29	386	22.1	373	23	AAE20604	Mus musculus GPCR
30	385	22.0	377	22	AAE04352	Human p2-purinergic
31	385	22.0	377	22	AAE01143	Human purinergic r
32	385	22.0	377	22	AAE01144	Human purinergic r
33	384	22.0	330	23	AAE77964	Human G-protein cc
34	384	22.0	341	22	AAE07539	Human G-protein cc
35	384	22.0	346	22	AAE12022	Human G-protein cc
36	384	22.0	346	22	AAE82852	Human p2y1-like GPR
37	384	22.0	346	22	AAU07538	Human G-protein cc
38	384	22.0	346	22	AAU04368	Human G-protein cc
39	384	22.0	346	22	AAU07294	Cysleiny1 leukotri
40	384	22.0	346	22	AAE73097	Human LTC4 recept
41	384	22.0	346	23	ABE66684	Human novel polype
42	384	22.0	346	23	AAU10004	Human cyslr2-like
43	384	22.0	346	23	AAE17221	Human Cyslr2 GPCR
44	384	22.0	346	23	AAE17965	Human G-protein cc
45	384	22.0	346	23	ABE05229	Human LTD4-like G

ALIGNMENTS

Accession	Source	Protein	Accession	Source	Protein
AA071308	AA071308	standard; Protein; 334 AA.	AA071308	AA071308	standard; Protein; 334 AA.
02-NOV-2000	02-NOV-2000	(first entry)	02-NOV-2000	02-NOV-2000	(first entry)
Human orphan G protein-coupled receptor hCHN10.	Human orphan G protein-coupled receptor hCHN10.		Human orphan G protein-coupled receptor hCHN10.	Human orphan G protein-coupled receptor hCHN10.	
Human; orphan G protein-coupled receptor; GPCR; hCHN10; drug screening	Human; orphan G protein-coupled receptor; GPCR; hCHN10; drug screening		Human; orphan G protein-coupled receptor; GPCR; hCHN10; drug screening	Human; orphan G protein-coupled receptor; GPCR; hCHN10; drug screening	
transmembrane receptor; expressed sequence tag; EST; signal cascade.	transmembrane receptor; expressed sequence tag; EST; signal cascade.		transmembrane receptor; expressed sequence tag; EST; signal cascade.	transmembrane receptor; expressed sequence tag; EST; signal cascade.	
Homo sapiens.	Homo sapiens.		Homo sapiens.	Homo sapiens.	
MO2000031258-A2.	MO2000031258-A2.		MO2000031258-A2.	MO2000031258-A2.	
02-JUN-2000.	02-JUN-2000.		02-JUN-2000.	02-JUN-2000.	
13-OCT-1999;	13-OCT-1999;	99WO-US23687.	13-OCT-1999;	13-OCT-1999;	99WO-US23687.
20-NOV-1998;	20-NOV-1998;	98US-0109213.	20-NOV-1998;	20-NOV-1998;	98US-0109213.
16-FEB-1999;	16-FEB-1999;	99US-0120416.	16-FEB-1999;	16-FEB-1999;	99US-0120416.
25-FEB-1999;	25-FEB-1999;	98US-0121852.	25-FEB-1999;	25-FEB-1999;	98US-0121852.
12-MAR-1999;	12-MAR-1999;	99US-0123946.	12-MAR-1999;	12-MAR-1999;	99US-0123946.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0123949.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0123949.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136436.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136436.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136437.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136437.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136439.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136439.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136567.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0136567.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0137127.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0137127.
PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0137131.	PR 28-MAY-1999;	PR 28-MAY-1999;	99US-0137131.
PR 29-JUN-1999;	PR 29-JUN-1999;	99US-0141448.	PR 29-JUN-1999;	PR 29-JUN-1999;	99US-0141448.

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PR 29-SEP-1999; 99US-0156555.
PR 29-SEP-1999; 99US-0156633.
PR 29-SEP-1999; 99US-0156634.
PR 29-SEP-1999; 99US-0156653.
PR 01-OCT-1999; 99US-0157280.
PR 01-OCT-1999; 99US-0157281.
PR 01-OCT-1999; 99US-0157282.
PR 01-OCT-1999; 99US-0157293.
PR 01-OCT-1999; 99US-0157294.
PR 12-OCT-1999; 99US-0416760.
PR 12-OCT-1999; 99US-0417044.
XX (AREN-) ARENA PHARM INC.
XX
XX Chen R, Dang HT, Liaw CW, Lin I;
XX
XX WPI; 2000-400068/34.
XX N-PSDB; AAD01135.
XX
XX Novel human orphan G protein-coupled receptors and the encoding cDNAs
XX for use in the identification of G protein-coupled receptor agonists -
XX
XX Claim 70; Page 87-88; 102pp; English.
XX
XX The present amino acid sequence is the hCHN10, an endogenous human
XX orphan G protein-coupled receptor (GPCR), expressed in kidney and
XX thyroid. The hCHN10 cDNA was identified using the human EST (expressed
XX sequence tag) 1365839 as a probe. The orphan GPCR of the invention, like
XX all GPCRs has seven transmembrane alpha helices with an extracellular
XX N-terminus and an intracellular C-terminus. However, no endogenous
XX ligands has yet been identified for the proteins of the invention. The
XX orphan GPCRs may be used in the identification of their endogenous
XX ligands, and to screen potential GPCR agonists and antagonists for use as
XX pharmaceutical agents. The proteins may also be used in the study of
XX GPCR-mediated signalling cascades, and to elucidate their precise role in
XX normal and diseased human conditions. Nucleic acid encoding human orphan
XX GPCRs may be used for tissue localisation expression analysis to provide
XX information about their function in healthy and pathological states.
XX
XX SQ Sequence 334 AA;
XX
XX Query Match 99.4%; Score 1737; DB 21; Length 334;
XX Best Local Similarity 99.7%; Pred. No. 8.2e-172;
XX Matches 333; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 121 YLIITKYPREHLLQKFAILISIAIWLVTLELLPLINLPVITDNGTTCNDFASSGD 180
DB 121 YLIITKYPREHLLQKFAILISIAIWLVTLELLPLINLPVITDNGTTCNDFASSGD 180
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DB 241 FSVLPTPHVNRNRIASRLGSKQYQCTQVINSFIVTRPLAFLNSVNPVYFLLGD 300
QY 301 HFRDMLNQLRHNPKSLTSFSRWAEHLLSPREK 334
DB 301 HFRDMLNQLRHNPKSLTSFSRWAEHLLSPREK 334
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XX RESULT 2
XX AAB02842
XX ID AAB02842 standard; Protein; 334 AA.
```

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XX AC AAB02842;
XX DT 22-AUG-2000 (first entry)
XX DE Human G protein coupled receptor hCHN10 protein SEQ ID NO:38.
XX KW Human; G protein coupled receptor; GPCR; transmembrane receptor;
XX identification; agonist; screening; therapeutic; pharmaceutical;
XX mutant.
XX OS Homo sapiens.
XX PN WO200022131-A2.
XX PD 20-APR-2000.
XX PF 13-OCT-1999; 99WO-US24065.
XX PR 13-OCT-1998; 98US-0170496.
XX PR 12-NOV-1998; 98US-0108029.
XX PR 20-NOV-1998; 98US-0109213.
XX PR 27-NOV-1998; 98US-0110060.
XX PR 16-FEB-1999; 99US-0120416.
XX PR 28-FEB-1999; 99US-0121852.
XX PR 12-MAR-1999; 99US-0123944.
XX PR 12-MAR-1999; 99US-0123945.
XX PR 12-MAR-1999; 99US-0123946.
XX PR 12-MAR-1999; 99US-0123948.
XX PR 12-MAR-1999; 99US-0123949.
XX PR 12-MAR-1999; 99US-0123951.
XX PR 28-MAY-1999; 99US-0136436.
XX PR 28-MAY-1999; 99US-0136437.
XX PR 28-MAY-1999; 99US-0136439.
XX PR 28-MAY-1999; 99US-0137127.
XX PR 28-MAY-1999; 99US-0137131.
XX PR 28-MAY-1999; 99US-0137567.
XX PR 30-JUN-1999; 99US-0141448.
XX PR 27-AUG-1999; 99US-0151114.
XX PR 03-SEP-1999; 99US-0152524.
XX PR 29-SEP-1999; 99US-0156633.
XX PR 29-SEP-1999; 99US-0156555.
XX PR 29-SEP-1999; 99US-0156634.
XX (AREN-) ARENA PHARM INC.
XX Behan DP, Lehmann-Bruinsma K, Chalmers DT, Chen R, Dang HT;
XX Gore M, Liaw CW, Lin I, Lowitz K, White C;
XX WPI; 2000-317986/27.
XX N-PSDB; AAA46036.
XX
XX Non-endogenous, human G protein-coupled receptors for screening
XX receptor, inverse or partial agonists useful as therapeutic agents -
XX Example 1; Page 117-118; 187pp; English.
XX
XX The present invention describes transmembrane receptors, preferably
XX human G protein coupled receptors (GPCR), for which the endogenous
XX ligand is unknown (orphan GPCR receptors). More specifically the present
XX invention relates to non-endogenous, constitutively activated versions
XX of a human GPCR. These non-endogenous human GPCRs can be useful for
XX the direct identification of candidate compounds as receptors agonists,
XX inverse agonists or partial agonists for use as pharmaceutical agents.
XX AAA46017 to AAA46126 and AAB02825 to AAB02859 represent sequences used in
XX the exemplification of the present invention.
XX
XX SQ Sequence 334 AA;
XX
XX Query Match 99.4%; Score 1737; DB 21; Length 334;
XX Best Local Similarity 99.7%; Pred. No. 8.2e-172;
XX Matches 333; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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 DB 1 MGIMAMNATCKNWLAAEALAEKYYLSTFYGIEFVVGIGNTIVVGYIFSLKNMSSNI 60
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 DB 61 YLFNLSVSDLAFLCTLPMLIRSYANGNWIYGDVLCISNRVLAHNLVTSILFLTFISIDR 120
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RESULT 3
 ABB90381
 ID ABB90381 standard; Protein; 334 AA.
 AC ABB90381;
 DT 24-MAY-2002 (first entry)
 DE Human polypeptide SEQ ID NO 2757.
 OS Homo sapiens.
 XX WO200190304-A2.
 XX 29-NOV-2001.
 XX 18-MAY-2001; 2001WO-US16450.
 XX 19-MAY-2000; 2000US-205515P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Birse CE, Rosen CA;
 XX WPI: 2002-122018/16.
 XX N-PSDB; ABL90790.
 XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative disorders -
 XX Claim 11; SEQ ID NO 2757; 2081bp + Sequence Listing; English.
 XX The invention relates to novel genes (AB89449-ABL90853) and proteins (AB89440-AB89044) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital;

CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
 CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemia;
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
 CC and parasitic infections.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 334 AA:
 Query Match 99.4%; Score 1737; DB 23; Length 334;
 Best Local Similarity 99.7%; Pred. No. 8,2e-172;
 Matches 333; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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 DB 1 MGIMAMNATCKNWLAAEALAEKYYLSTFYGIEFVVGIGNTIVVGYIFSLKNMSSNI 60
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RESULT 4
 AAE15633
 ID AAE15633 standard; Protein; 379 AA.
 AC AAE15633;
 DT 12-MAR-2002 (first entry)
 DE Human G-protein coupled receptor-3 (GPRC-3) protein.
 OS Homo sapiens.
 XX Location/Qualifiers
 FH Key 187..206
 FT Domain //label= Transmembrane_domain
 FT Domain 234..253
 FT Domain //label= Transmembrane_domain
 FT Domain 276..296
 FT Domain //label= Transmembrane_domain
 FT Domain 319..342
 FT Domain //label= Transmembrane_domain
 XX WO200198351-A2.

XX WPI; 1997-310601/28.
DR N-PSDB; AAT71900.
XX
PT New isolated purinergic receptor sub-type - used to develop
PT products for diagnosis and therapy, e.g. for screening for agonists
PT and antagonists which can modulate activation
XX
PS Claim 1; Fig 1A-B; 36pp; English.
XX
CC P2U2 receptor (AAW19854) is a novel human purinergic receptor
CC subtype that is abundantly expressed in kidney and in many cell
CC lines of megakaryocytic or erythroleukemic origin and which is
CC activated by ATP, UDP, UTP and ADP. Its amino acid sequence was
CC deduced from a cDNA clone derived from DAMI (ATCC CRL 9792) cells.
CC P2U2 and its polypeptides can be expressed in host cells and used
CC to develop diagnostic and therapeutic agents. Antagonists and
CC agonists based on the extracellular domains of P2U2 receptor, or
CC which affect receptor function by binding to one of the
CC intracellular domains, can be used to treat diseases caused by
CC aberrant activation of this receptor or to treat diseases whose
CC symptoms can be ameliorated by stimulating or inhibiting the
CC activity of the receptor.
XX
SQ Sequence 334 AA;
Query Match 98.7%; Score 1725; DB 18; Length 334;
Best Local Similarity 99.1%; Pred. No. 1.4e-170;
Matches 331; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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DB 1 MGIAMNATCKNMLAADALEKYYLSIFYGIEFVGVGNTIVVYGYIFSLKNNSSNI 60
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DB 61 YLFNLSVSDLAFLCTLPMLIRSYANGNMIYGDVLCISNRYVLANLYSILFLFTISIDR 120
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DB 301 HFRDMLNQLRHNPKSLTFSRMAHELLLSPREK 334
RESULT 6
AAW22732
ID AAW22732 standard; Protein; 334 AA.
XX
AC AAW22732;
XX
DT 07-OCT-1997 (first entry)
XX
DE Human ATP receptor.
XX
KW ATP receptor; G-protein coupled receptor; agonist; antagonist.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Misc-difference 212
FT /note= "encoded by TCC"
FT Misc-difference 235

FT /note= "encoded by TCC"
FT Misc-difference 244
FT /label= Unknown
FT /note= "encoded by CYT"
XX
XX WO9724929-A1.
XX
XX 17-JUL-1997.
XX
XX PD 17-JUL-1997.
XX
XX PF 11-JAN-1996; 96WO-US00392.
XX
XX PR 11-JAN-1996; 96WO-US00392.
XX
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Li Y;
XX
XX DR WPI; 1997-372505/34.
XX
XX DR N-PSDB; AAT75146.
XX
XX PT Isolated human ATP receptor - agonists and antagonists of which are
XX PT useful in treatment of, e.g. asthma, hypertension, arterial
XX PT thrombosis and psychotic and neurological disorders
XX
XX PS Claim 15; Fig 1A-C; 53pp; English.
XX
XX CC Human ATP receptor (AAW22732) is structurally related to the G
XX CC protein-coupled receptor family. It shows 29.8% identity to a
XX CC murine P2u receptor. Its amino acid sequence was deduced from a
XX CC human placental cDNA clone (AAT75146). Recombinant ATP receptor can
XX CC be expressed in bacterial (e.g. E. coli), mammalian (e.g. COS) or
XX CC insect (e.g. Sf9) host cells and used to screen for agonists and
XX CC antagonists useful in the treatment of conditions related to
XX CC underexpression of the receptor (e.g. asthma, Parkinson's disease,
XX CC acute heart failure, hypotension, urinary retention and
XX CC osteoporosis) or underexpression of the receptor (e.g. arterial
XX CC thrombosis, hypertension, thrombolysis, angioplasty, cystic
XX CC fibrosis, ulcers, asthma, allergy, benign prostatic hypertrophy,
XX CC psychotic and neurological disorders, dyskinesias, endogenous
XX CC anorexia and bulimia).
XX
SQ Sequence 334 AA;
Query Match 98.5%; Score 1721; DB 18; Length 334;
Best Local Similarity 99.5%; Pred. No. 3.7e-170;
Matches 329; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
QY 1 MGIAMNATCKNMLAADALEKYYLSIFYGIEFVGVGNTIVVYGYIFSLKNNSSNI 60
DB 1 MGIAMNATCKNMLAADALEKYYLSIFYGIEFVGVGNTIVVYGYIFSLKNNSSNI 60
QY 61 YLFNLSVSDLAFLCTLPMLIRSYANGNMIYGDVLCISNRYVLANLYSILFLFTISIDR 120
DB 61 YLFNLSVSDLAFLCTLPMLIRSYANGNMIYGDVLCISNRYVLANLYSILFLFTISIDR 120
QY 121 YLIIRYPRREHLQKKEFAIILISLAIWLVNTELEPLILPINPVITDNGTGNDFASSGD 180
DB 121 YLIIRYPRREHLQKKEFAIILISLAIWLVNTELEPLILPINPVITDNGTGNDFASSGD 180
QY 181 PNYNLIYSMCLTLGFLIPLFVWCFFYYKIALFLKORNRQVATALPLEKPLNLVIMAVI 240
DB 181 PNYNLIYSMCLTLGFLIPLFVWCFFYYKIALFLKORNRQVATALPLEKPLNLVIMAVI 240
QY 241 FSVVPTPYHVRNVRVIAASRLGSKWQYQCTQVIVNSFYIVTRPALNSVINPVFYLGD 300
DB 241 FSVVPTPYHVRNVRVIAASRLGSKWQYQCTQVIVNSFYIVTRPALNSVINPVFYLGD 300
QY 301 HFRDMLNQLRHNPKSLTFSRMAHELLLSPREK 334
DB 301 HFRDMLNQLRHNPKSLTFSRMAHELLLSPREK 334
RESULT 7

AAU31029
ID AAU31029 standard; Protein; 387 AA.
XX
AC AAU31029;
XX
DT 18-DEC-2001 (first entry)
XX
DE Novel human secreted protein #1520.
XX
KW Human; vaccination; gene therapy; nutritional supplement;
KW stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
OS Homo sapiens.
XX
FN WO200179449-A2.
XX
PD 25-OCT-2001.
XX
PF 16-APR-2001; 2001WO-US08656.
XX
PR 18-APR-2000; 2000US-0552929.
PR 26-JAN-2001; 2001US-0770160.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
DR WPI; 2001-611725/70.
XX
PT Nucleic acids encoding a range of human polypeptides, useful in genetic
PT vaccination, testing and therapy -
XX
PS Claim 20; Page 392; 765pp; English.
XX
CC The invention relates to novel human secreted polypeptides. The
CC polypeptides and antibodies to the polypeptides are useful for
CC determining the presence of or predisposition to a disease associated
CC with altered levels of polypeptide. The polypeptides are also useful for
CC identifying agents (agonists and antagonists) that bind to them. Cells
CC expressing the proteins are useful for identifying a therapeutic agent
CC for use in treatment of a pathology related to aberrant expression or
CC physiological interactions of the polypeptide. Vectors comprising
CC the nucleic acids encoding the polypeptides and cells genetically
CC engineered to express them are also useful for producing the proteins.
CC The proteins are useful in genetic vaccination, testing and
CC therapy, and can be used as nutritional supplements. They may be used to
CC increase stem cell proliferation; to regulate haematopoiesis; and in
CC bone, cartilage, tendon and/or nerve tissue growth or regeneration;
CC immune suppression and/or stimulation; as anti-inflammatory agents; and
CC in treatment of leukaemias. AAU29510-AAU3304 represent the amino acid
CC sequences of novel human secreted proteins of the invention.
XX
SQ Sequence 387 AA;
Query Match 97.1%; Score 1696; DB 22; Length 387;
Best Local Similarity 98.8%; Pred. No. 1.8e-167;
Matches 325; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
Qy 6 AWWATCKWLAEEALEKYLISIFGIEFVGVGLNTIVVYGIIFSLKNWSSNLYLNL 65
Dy 59 AWWATCKWLAEEALEKYLISIFGIEFVGVGLNTIVVYGIIFSLKNWSSNLYLNL 118
Qy 66 SVSDLAFLCTPLMLRSVANGNWIYGVGLNCTSNRVVLHANLYTSILFTFISIDRYLIK 125
Dy 119 SVSDLAFLCTPLMLRSVANGNWIYGVGLNCTSNRVVLHANLYTSILFTFISIDRYLIK 178
Qy 126 YPFREHLLQKKEFAILISLAIWLVLTLELLPLPLINPVITDGTGNDFFASSGDPNVL 185
Dy 179 YPFREHLLQKKEFAILISLAIWLVLTLELLPLPLINPVITDGTGNDFFASSGDPNVL 238
Qy 186 IYSMCLTLLGFLPIFVNCFFYYKIALFLKQRNQVATLPLEKPLNLVIMAVVIFSVPF 245
|||||

Db 239 IYSMCLTLLGFLPIFVNCFFYYKIALFLKQRNQVATLPLEKPLNLVIMAVVIFSVPF 298
Qy 246 TPYHVMNRNRIASRLGSKWQYQCTQVINSFYIVTRPLAFNSVINPVFYFLGSHFRDM 305
AC |||||||
Db 299 TPYHVMNRNRIASRLGSKWQYQCTQVINSFYIVTRPLAFNSVINPVFYFLGSHFRDM 358
Qy 306 LMNQLRHNFKSLTFSRWAHELLLSFREK 334
Dy 359 LMNQLRHNFKSLTFSRWAHELLLSFREK 387
|||||
RESULT 8
AAB45376
ID AAB45376 standard; Protein; 258 AA.
XX
AC AAB45376;
XX
DT 14-FEB-2001 (first entry)
XX
DE Human secreted protein sequence encoded by gene 37 SEQ ID NO:128.
XX
KW Human; secreted protein; diagnosis; immunosuppressive; antiarthritic;
KW antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;
KW cerebroprotective; neurotropic; neuroprotective; antibacterial; virucide;
KW fungicide; ophthalmological; vulnery; gene therapy; autoimmune disease;
KW hyperproliferative disorder; cardiovascular disorder; angiogenesis;
KW cerebrovascular disorder; nervous system disorder; infection; skin aging;
KW ocular disorder; wound healing; food additive; preservative.
XX
OS Homo sapiens.
XX
FN WO2000061628-A1.
XX
PD 19-OCT-2000.
XX
PF 06-APR-2000; 2000WO-US09070.
XX
PR 09-APR-1999; 99US-0128695.
PR 14-JAN-2000; 2000US-0176052.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM, Komatsoulis G;
XX
DR WPI; 2000-619228/59.
XX
PT New nucleic acid molecules encoding 49 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
PT used as food additives or preservatives -
XX
PS Disclosure; Page 447-448; 454pp; English.
XX
CC The polynucleotide sequences given in AAC81086 to AAC81134 encode the
CC human secreted proteins given in AAB45308 to AAB45356. AAB45357 to
CC AAB45384 represent human secreted polypeptide sequences and proteins
CC homologous to them, which are given in the exemplification of the present
CC invention. Human secreted proteins have activities based on the tissues
CC and cells the genes are expressed in. Examples of activities include:
CC antiarthritic; immunosuppressive; antirheumatic; antiproliferative;
CC cytostatic; cardiant; vasotropic; cerebroprotective; neurotropic;
CC neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
CC and vulnery. The polynucleotides and polypeptides can be used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used
CC in diagnosing a pathological condition or susceptibility to a
CC pathological condition. Disorders which are diagnosed or treated include
CC autoimmune diseases, hyperproliferative disorders, cardiovascular
CC disorders, cerebrovascular disorders, angiogenesis, nervous system
CC disorders, infections caused by bacteria, viruses and fungi and ocular
CC disorders. The polypeptides can also be used to aid wound healing and
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to
CC maintain organs before transplantation, for supporting cell culture of
CC primary tissues, to regenerate tissues and in chemotaxis. The

CC polypeptides can also be used as a food additive or preservative to
CC increase or decrease storage capabilities, fat content, lipid, protein,
CC carbohydrate, vitamins, minerals, cofactors and other nutritional
CC components. AAC81077 to AAC81085 and AAB5307 represent sequences used in
CC the exemplification of the present invention.

XX Sequence 258 AA;

Query Match 76.3%; Score 1333; DB 21; Length 258;
Best Local Similarity 99.6%; Pred. No. 5,2e-130;
Matches 257; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 24 YLSIFVGIIEFVGVGLNTIVVGYIFSLKMNSSNIYFNLVSDFLCTPLMLIRSY 83
DB 1 YLSIFVGIIEFVGVGLNTIVVGYIFSLKMNSSNIYFNLVSDFLCTPLMLIRSY 60
QY 84 ANGNWIVGDVLCISNRVYLANLVTLSIFLTFTISIDRYLIKYPREHLQKKEPAILIS 143
DB 61 ANGNWIVGDVLCISNRVYLANLVTLSIFLTFTISIDRYLIKYPREHLQKKEPAILIS 120
QY 144 LAIWLVTLELPLILPLINPVITDNGTTCNDFASSGDPVYNIYSMCLTLGLFLPLFVM 203
DB 121 LAIWLVTLELPLILPLINPVITDNGTTCNDFASSGDPVYNIYSMCLTLGLFLPLFVM 180
QY 204 CFYFYKIALFLKORNRQVATLPLEKPLNLVIMAVIVSPPTPYHVMNRVIAASRLGSM 263
DB 181 CFYFYKIALFLKORNRQVATLPLEKPLNLVIMAVIVSPPTPYHVMNRVIAASRLGSM 240
QY 264 KOYQCTQVIVNSFYIVTR 281
DB 241 KOYQCTQVIVNSFYIVTR 258

RESULT 9

AAU74904
ID AAU74904 standard; Protein; 317 AA.

XX AAU74904;

XX 09-APR-2002 (first entry)

XX Amino acid sequence of mouse G-protein coupled receptor TGR18 protein.

XX Mouse; G-protein coupled; receptor; GPCR; TGR18; kidney disease;
XX signal transduction modulator; cerebral cavernous malformation;
XX hyperlipidemia; obesity; dyslexia; cardiac myxoma; renal failure;
XX nephritis; hypertension; liver disease; cirrhosis; blood disorder;
XX spleen-associated disorder; immune disorder.

XX Mus sp.

XX W0200200719-A2.

XX 03-JAN-2002.

XX 25-JUN-2001; 2001WO-US20363.

XX 23-JUN-2000; 2000US-213461P.

XX (TULA-) TULARIK INC.

XX Lin DC, Zhao J, Chen J, Cutler G;

XX WPI; 2002-147880/19.

XX N-PSDB; ABK12957.

XX New G-protein coupled receptor polypeptides, useful for identifying
XX PT modulators of signal transduction for treating kidney disease,
XX PT hyperlipidemia, obesity, dyslexia and cardiac myxoma

XX Claim 33; Page 59; 78pp; English.

XX The present invention relates to a new G-protein coupled receptor (GPCR)

CC polypeptide comprising greater than 70% amino acid sequence identity to
CC the amino acid sequence of human GPCRs TGR62, TGR21, TGR130.1, TGR130.2,
CC human TGR23 or TGR92, 80% amino acid sequence identity to mouse TGR18
CC or 90% amino acid sequence identity to human novel edg receptor protein,
CC as defined in the specification. The GPCR covalently linked to a solid
CC phase is useful for identifying a compound that modulates signal
CC transduction. The identified compounds are useful for treating
CC kidney disease, cerebral cavernous malformations, hyperlipidemia,
CC obesity, dyslexia and cardiac myxoma. The molecules of the invention are
CC useful for diagnosing disorders or conditions such as kidney-related
CC conditions or diseases such as renal failure, nephritis, nephrotic
CC syndrome, asymptomatic urinary abnormalities, renal tubule defects,
CC hypertension and nephrolithiasis, liver-related disease or condition
CC e.g. cirrhosis, infiltrations, lesions, functional disorders and jaundice
CC and spleen-associated disorders or conditions e.g. splenic enlargement,
CC immune disorders, blood disorders and others. Modulation of the
CC polypeptide of the invention is useful to treat or prevent any of the
CC above conditions or diseases. The present amino acid sequence represents
CC the mouse GPCR TGR18 protein of the invention. This sequence is one of
CC seven novel G protein coupled receptors of the invention (AAU74904-
CC AAU74911).

XX Sequence 317 AA;

Query Match 70.5%; Score 1231.5; DB 23; Length 317;
Best Local Similarity 71.8%; Pred. No. 2,4e-119;
Matches 227; Conservative 42; Mismatches 46; Indels 1; Gaps 1;

QY 5 MAMNATCKNWLAEBALEKRYISIFVGIIEFVGVGLNTIVVGYIFSLKMNSSNIYLFN 64
DB 1 MAQNLSCEWNLATEAILNKYLSAFYAIEFIFGLGNVTIVVGYIFCMKMNSSNIYLFN 60

QY 65 LVSDFLCTPLMLIRSYANGNVIYGDVLCISNRVYLANLVTLSIFLTFTISIDRYLI 124
DB 61 LVSDFLCTPLMLIRSYANGNVIYGDVLCISNRVYLANLVTLSIFLTFTISIDRYLI 120

QY 125 KYPREHLQKKEPAILISLAIWVLTLELPLILPLINPVITDNGTTCNDFASSGDPVNY 184
DB 121 KYPREHLQKKEPAILISLAIWVLTLELPLILPLINPVITDNGTTCNDFASSGDPVNY 180

QY 185 LIYSMCLTLGLFLPLFVWCFFYFYKIALFLKORNRQVATLPLEKPLNLVIMAVIVSPV 244
DB 181 LIYSMCLTLGLFLPLFVWCFFYFYKIALFLKORNRQVATLPLEKPLNLVIMAVIVSPV 240

QY 245 FPPYHVMNRVIAASRLGSMKOYQCTQVIVNSFYIVTRPLAFNSINVPFYFLGDHPFD 304
DB 241 FPPYHVMNRVIAASRLGSMKOYQCTQVIVNSFYIVTRPLAFNSINVPFYFLGDHPFD 299

QY 305 MLMNQLRHNPKSLTSF 320

DB 300 MLMNQLRHNPKSLTSF 315

RESULT 10

AAU10984
ID AAU10984 standard; Protein; 373 AA.

XX AAU10984;

XX 12-MAR-2002 (first entry)

XX Purinergic receptor P2Y, G-protein coupled 1, isoform #1.

XX Purinergic receptor P2Y, G-protein coupled 1; P2RY1; anticoagulant;
XX KW coagulant; platelet aggregation; haplotyping; drug screening;
XX KW transgenic animal; human.

XX Homo sapiens.

XX Key Location/Qualifiers

XX Misc-difference 34

XX FT notes= "Wild type Ala substituted by Val"

CC restenotic complications following angioplasty, carotid endarterectomy,
CC post CABG (coronary artery bypass graft) surgery, vascular graft surgery,
CC sent placements or insertion of endovascular devices and prostheses.
CC P2Y12 receptor is useful for identifying binding partners and for
CC diagnostic applications. P2Y12 receptor provides targets for screening
CC synthetic small molecules and combinatorial or naturally occurring
CC compound libraries to regulate platelet aggregation, vascular injury, or
CC disease as well as schizophrenia, eating disorders, depression, migraine
CC and other brain disorders. The present sequence is human P2-purinergic
CC receptor subtype, P2Y1 related to the invention.

XX Sequence 373 AA;

Query Match 28.5%; Score 497.5; DB 22; Length 373;

Best Local Similarity 36.3%; Pred. No. 5e-43;

Matches 117; Conservative 60; Mismatches 124; Indels 21; Gaps 9;

QY 6 AW-NATCKNMLAA---BALEK---YLSIFYGIEFVGVGLNTTVVGYIFSLKNW 55

DB 24 SWGNSVASTAAVSSSFICALTKTGOFYVILPAVYILVFIIIGFLGNSVAIMVFHMKW 83

QY 56 NSSNIYLFNLSVSDIAFLCTLPMLIRSYAN-GNWIYGDVLCISNRVYLANLYTSILFLT 114

DB 84 SGISVYMFNMLADFLVLTLPALIFYYFNKTDWIFGDMCKLQRFIPHVNLGSLFLT 143

QY 115 FISIDRYLIKYPREHLLQKKEFAILISLAIWVLTLELPILPLINPVITDNGT-TCN 173

DB 144 CISAHRYSGVVPYPLKSLRLKKNKICISVLWLVVAISILYSGTGVRKNNTITCY 203

QY 174 DPASSGDPNNVLIYSMCTLLGFLIPFVM--CFPYVKIALFLKQRNRQVATAPL-EKP 230

DB 204 DTSDEYLRSVFIYSMCTTVAMFCVPLVILIGCYGLIVRALYKDLDS----PLRRKS 258

QY 231 LNLVIMAVIFSVPPTPYHVMNRVRIASRLGSKQYOCT-QVINSFYIVTRPLAFNSV 289

DB 259 IYLVIIIVLTFAVSYIPHVAKTMNLRARLDFQTPAMCAFNDRVATYQVTRGLASLNSC 318

QY 290 INPVFYFLGDHFRDMLNMQLR 311

DB 319 VDPILYFLAGDTFRRRLSRATR 340

RESULT 12

ID AAU10983 standard; Protein: 373 AA.

XX AAU10983;

XX 12-MAR-2002 (first entry)

XX Purinergic receptor P2Y, G-protein coupled 1.

XX Purinergic receptor P2Y, G-protein coupled 1; P2RY1; anticoagulant;

XX coagulant; platelet aggregation; haplotyping; drug screening;

XX transgenic animal; human.

XX Homo sapiens.

XX WO200190117-A2.

XX 29-NOV-2001.

XX 21-MAY-2001; 2001WO-US16432.

XX 19-MAY-2000; 2000US-205996P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Kazemi A, Koshy B, Tanguay DA;

XX WPI, 2002-083074/11.

XX N-PSDB; AAS18599.

FT New purinergic receptor P2Y G-protein coupled 1 (P2RY1) gene
FT polymorphic variants, useful e.g. in studying the expression and
FT function of P2RY1 and screening candidate drugs for treating diseases
FT related to P2RY1 activity -

PS Claim 28; Fig 3; 79pp; English.

CC The invention relates to a novel isolated polypeptide comprising a
CC sequence which is a polymorphic variant of a reference sequence for the
CC purinergic receptor P2Y, G-protein coupled, 1 (P2RY1) protein or its
CC fragment. The polymorphic variant comprises one or more variant amino
CC acids selected from valine at a position 34 and glycine at a position
CC 262. The polymorphic variants are useful in studying the expression
CC and function of P2RY1, in expressing P2RY1 protein for use in screening
CC for candidate drugs to treat diseases related to P2RY1 activity, in
CC studying the effect of the variation on the biological activity of
CC P2RY1, and the binding affinity of candidate drugs targeting P2RY1 for
CC the treatment of disorders related to platelet aggregation. The
CC haplotyping methods are useful in validating P2RY1 as a candidate
CC target for treating a specific condition or disease predicted to be
CC associated with P2RY1 activity, or in the design of clinical trials of
CC candidate drugs for treating a specific condition or disease associated
CC with P2RY1 activity. The transgenic animals are useful for studying
CC expression of the P2RY1 isogenes in vivo, for in vivo screening and
CC testing of drugs targeted against P2RY1 protein, and for testing the
CC efficacy of therapeutic agents and compounds for disorders related to
CC platelet aggregation in a biological system. The present sequence
CC represents the amino acid sequence of human purinergic receptor P2Y,
CC G-coupled protein 1 (P2RY1).

XX Sequence 373 AA;

Query Match 28.5%; Score 497.5; DB 23; Length 373;

Best Local Similarity 36.3%; Pred. No. 5e-43;

Matches 117; Conservative 60; Mismatches 124; Indels 21; Gaps 9;

QY 6 AW-NATCKNMLAA---BALEK---YLSIFYGIEFVGVGLNTTVVGYIFSLKNW 55

DB 24 SWGNSVASTAAVSSSFICALTKTGOFYVILPAVYILVFIIIGFLGNSVAIMVFHMKW 83

QY 56 NSSNIYLFNLSVSDIAFLCTLPMLIRSYAN-GNWIYGDVLCISNRVYLANLYTSILFLT 114

DB 84 SGISVYMFNMLADFLVLTLPALIFYYFNKTDWIFGDMCKLQRFIPHVNLGSLFLT 143

QY 115 FISIDRYLIKYPREHLLQKKEFAILISLAIWVLTLELPILPLINPVITDNGT-TCN 173

DB 144 CISAHRYSGVVPYPLKSLRLKKNKICISVLWLVVAISILYSGTGVRKNNTITCY 203

QY 174 DPASSGDPNNVLIYSMCTLLGFLIPFVM--CFPYVKIALFLKQRNRQVATAPL-EKP 230

DB 204 DTSDEYLRSVFIYSMCTTVAMFCVPLVILIGCYGLIVRALYKDLDS----PLRRKS 258

QY 231 LNLVIMAVIFSVPPTPYHVMNRVRIASRLGSKQYOCT-QVINSFYIVTRPLAFNSV 289

DB 259 IYLVIIIVLTFAVSYIPHVAKTMNLRARLDFQTPAMCAFNDRVATYQVTRGLASLNSC 318

QY 290 INPVFYFLGDHFRDMLNMQLR 311

DB 319 VDPILYFLAGDTFRRRLSRATR 340

RESULT 13

ID AAU10985 standard; Protein: 373 AA.

XX AAU10985;

XX 12-MAR-2002 (first entry)

XX Purinergic receptor P2Y, G-protein coupled 1, isoform #2.

XX Purinergic receptor P2Y, G-protein coupled 1; P2RY1; anticoagulant;

XX coagulant; platelet aggregation; haplotyping; drug screening;

CC inverse agonists or partial agonists having applicability as therapeutic
CC agents for treating diseases related to GPCR, e.g. lung cancer.
CC Non-endogenous version of human GPCRs are also utilized in research
CC settings and in vitro and in vivo system. Incorporating GPCRs can be
CC utilized to elucidate and understand the roles these receptors
CC play in the human condition, both normal and diseased.

XX
XX Sequence 337 AA;
SQ

Query Match 27.3%; Score 477; DB 22; Length 337;
Best Local Similarity 35.9%; Pred. No. 5.9e-41;
Matches 110; Conservative 61; Mismatches 123; Indels 12; Gaps 6;

QY 8 NATCKNMLAABALEKXYLSIFGYIEFVGVGNTIVVGYIFSLKMNMSNIYLPNLSV 67
DB 23 NCTDEN-----IPLKMHYLPVITYGIIFLVGFPGNAVISTYIFKRPKMSSTIMMLAC 77

QY 68 SDLAFLCTLPMILIRSYANG-NWYIGDVLCSNRVYLANLYTSILFLPISIDRYLIIRY 126
DB 78 TDLVLVLTSLPFLIHYAAGEENWIFGDFMCKFRFSFHFNLVSSILFLTCFSIFRYCVIHH 137

QY 127 PEREHLQKKEPAIILSLAVLVTLELLPILPINPVITDNGTTCNDPSSGDPYVNI 186
DB 138 PMSCFSIHKTRCAVAVACAVWMIISLVAVIPMTFLITSTRTNRSACLDLTSDELNTIKW 197

QY 187 YSMCLTLGLFLPLFVMCFYFYKIALFLKQNRQVATLPLEKPLNLVIMAVIFSVPFT 246
DB 198 YNLITATTFCPLVIVLVCYTTI-IHTLTGLOTDSCIK-QKARRLTLLLLAFVYCVL 255

QY 247 PYHVRNRVRIASRLGSKYOQCT-OVINSFYIVTRPLAFNSVINPVYFPLGDHFRDM 305
DB 256 PFHILRVIRIESRLS---ISCSINQIHAYIVSRPLAALNTPGNLLLVVVSDFNFOQA 312

QY 306 LMNQLR 311
DB 313 VCSIVR 318

RESULT 15
AAOI5399
ID AAOI5399 standard; protein, 337 AA.
XX
XX AAOI5399;
AC
XX
XX 27-SEP-2002 (first entry)
DT
XX
XX Human G protein-coupled receptor.
DE
XX
XX Human; gene therapy; G protein-coupled receptor; drug development;
KW central nervous system disease; endocrine disease; metabolic disease;
KW cancer; respiratory disease; digestive disease; immune disease;
KW inflammation; infection; circulatory disease.

OS Homo sapiens.
XX
XX WO200257441-A1.
XX
XX 25-JUL-2002.
PD
XX
XX 17-JAN-2002; 2002WO-JP00270.
PF
XX
XX 18-JAN-2001; 2001JP-0010714.
PR
XX
XX 30-MAR-2001; 2001JP-0102484.
PR
XX
XX (TAKE) TAKEDA CHEM IND LTD.
PA
XX
XX Miwa M, Ito T, Shintani Y, Miyajima N;
PI
XX
XX WPI: 2002-566800/60.
DR
XX
XX N-PSDB: AAL43942.
DR
XX
XX Human kidney-originated G protein-coupled receptor protein TGR30 and
PT encoded DNA, for developing drugs to treat central nervous diseases,

PT endocrine diseases, metabolic diseases and cancer, including gene
PT therapy -
XX
XX
XX Claim 1; Page 88-90; 98pp; Japanese.
PS
XX
XX The invention comprises the amino acid and coding sequence of a human G
CC protein-coupled receptor. The DNA and protein sequences of the invention
CC are useful for developing drugs to prevent or treat (gene therapy):
CC central nervous system diseases; endocrine diseases; metabolic diseases;
CC cancer; respiratory diseases; digestive diseases; immune diseases;
CC inflammations; infections; and circulatory diseases. The present amino
CC acid sequence represents the human G protein-coupled receptor of the
CC invention.

XX
XX Sequence 337 AA;
SQ

Query Match 27.3%; Score 477; DB 23; Length 337;
Best Local Similarity 35.9%; Pred. No. 5.9e-41;
Matches 110; Conservative 61; Mismatches 123; Indels 12; Gaps 6;

QY 8 NATCKNMLAABALEKXYLSIFGYIEFVGVGNTIVVGYIFSLKMNMSNIYLPNLSV 67
DB 23 NCTDEN-----IPLKMHYLPVITYGIIFLVGFPGNAVISTYIFKRPKMSSTIMMLAC 77

QY 68 SDLAFLCTLPMILIRSYANG-NWYIGDVLCSNRVYLANLYTSILFLPISIDRYLIIRY 126
DB 78 TDLVLVLTSLPFLIHYAAGEENWIFGDFMCKFRFSFHFNLVSSILFLTCFSIFRYCVIHH 137

QY 127 PEREHLQKKEPAIILSLAVLVTLELLPILPINPVITDNGTTCNDPSSGDPYVNI 186
DB 138 PMSCFSIHKTRCAVAVACAVWMIISLVAVIPMTFLITSTRTNRSACLDLTSDELNTIKW 197

QY 187 YSMCLTLGLFLPLFVMCFYFYKIALFLKQNRQVATLPLEKPLNLVIMAVIFSVPFT 246
DB 198 YNLITATTFCPLVIVLVCYTTI-IHTLTGLOTDSCIK-QKARRLTLLLLAFVYCVL 255

QY 247 PYHVRNRVRIASRLGSKYOQCT-OVINSFYIVTRPLAFNSVINPVYFPLGDHFRDM 305
DB 256 PFHILRVIRIESRLS---ISCSINQIHAYIVSRPLAALNTPGNLLLVVVSDFNFOQA 312

QY 306 LMNQLR 311
DB 313 VCSIVR 318

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